

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082118\
 Data File : VX004169.D
 Acq On : 21 Aug 2018 12:19
 Operator : JC/MD
 Sample : J4560-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-0818-S-TCLP-GRID61-2(2)

Quant Time: Aug 22 00:52:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	284055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	454750	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	442272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	226562	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	202785	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
35) Dibromofluoromethane	5.50	113	174445	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
50) Toluene-d8	8.71	98	646470	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
62) 4-Bromofluorobenzene	11.14	95	213285	42.62	ug/l	0.00
Spiked Amount			Recovery	=	85.24%	

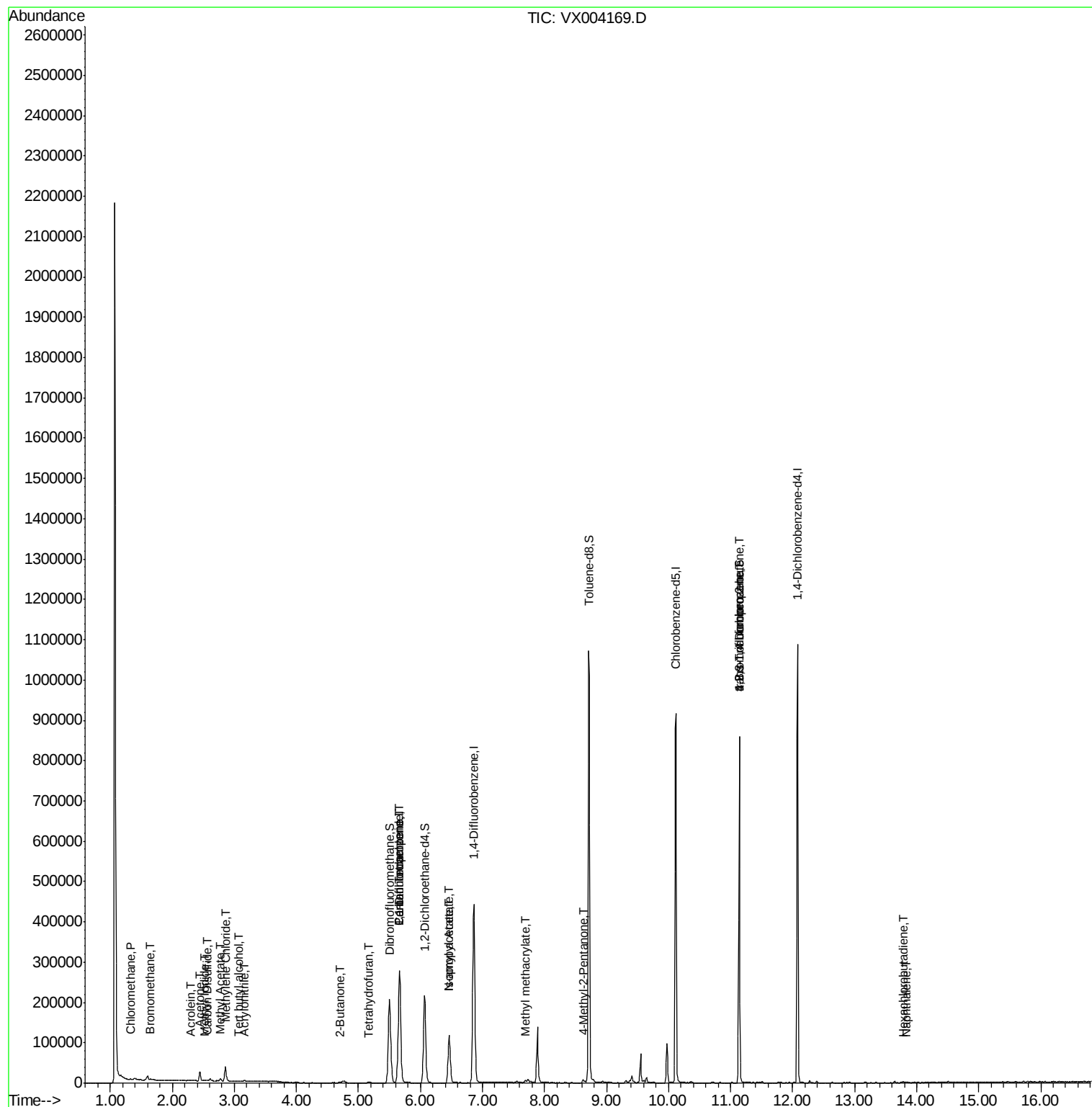
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1877	0.55	ug/l	94
5) Bromomethane	1.65	94	1100	0.41	ug/l	96
6) Chloroethane	1.67	64	400	Below Cal	#	55
10) Methyl Iodide	2.51	142	1331	5.36	ug/l	99
11) Tert butyl alcohol	3.07	59	838	1.04	ug/l	# 85
13) Acrolein	2.29	56	420	11.68	ug/l	91
15) Acrylonitrile	3.15	53	735	0.37	ug/l	# 91
16) Acetone	2.44	43	23836	11.46	ug/l	98
17) Carbon Disulfide	2.57	76	2256	0.27	ug/l	95
18) Methyl Acetate	2.78	43	6598	1.43	ug/l	99
20) Methylene Chloride	2.86	84	16273	4.23	ug/l	97
25) 2-Butanone	4.71	43	4481	1.32	ug/l	95
29) Tetrahydrofuran	5.15	42	1113	0.64	ug/l	# 85
36) 1,1-Dichloropropene	5.66	75	19174	3.71	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	24926	4.96	ug/l	# 15
43) Isopropyl Acetate	6.46	43	152258	18.33	ug/l	100
48) Methyl methacrylate	7.68	41	6830	1.63	ug/l	# 23
51) 4-Methyl-2-Pentanone	8.62	43	2460	0.36	ug/l	# 34
74) N-amyl acetate	6.46	43	152258	21.11	ug/l	# 99
76) 1,2,3-Trichloropropane	11.13	75	106588	23.46	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.13	75	106588	72.62	ug/l	# 9
94) Hexachlorobutadiene	13.78	225	609	0.24	ug/l	93
95) Naphthalene	13.83	128	1448	1.23	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

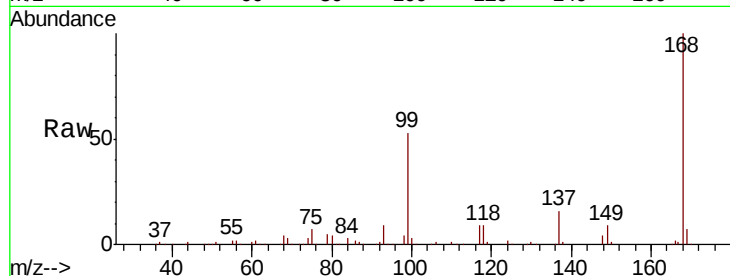
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion:168 Resp: 284055

Ion Ratio Lower Upper

168 100

99 52.8 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

40000

20000

0

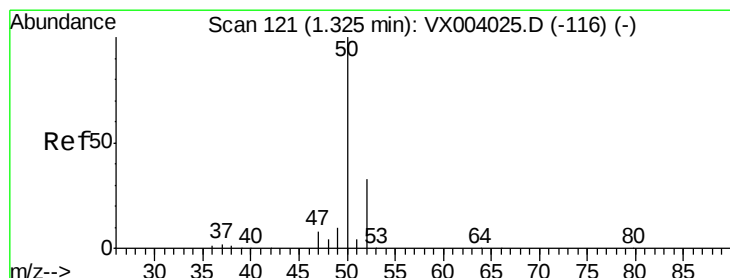
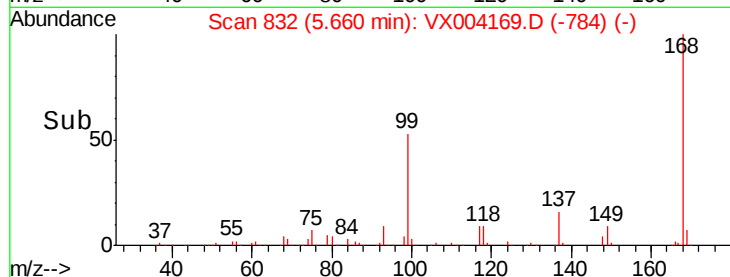
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: 0.55 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004169.D

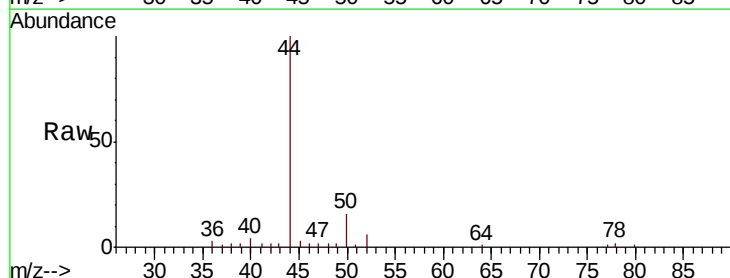
Acq: 21 Aug 2018 12:19

Tgt Ion: 50 Resp: 1877

Ion Ratio Lower Upper

50 100

52 36.4 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1200

1000

800

600

400

200

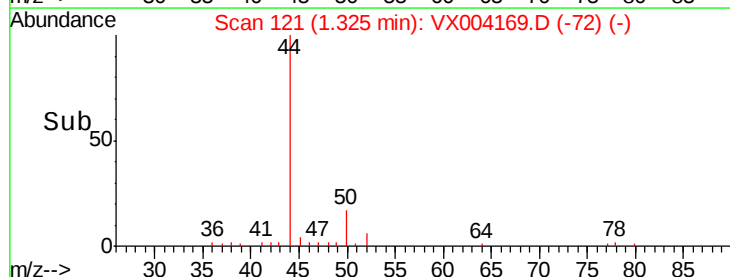
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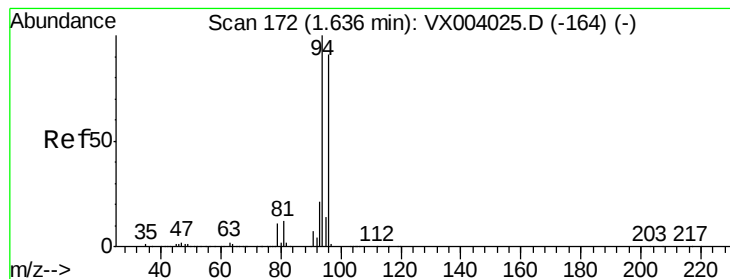
Time-->

1.30

1.35

1.40





#5

Bromomethane

Concen: 0.41 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

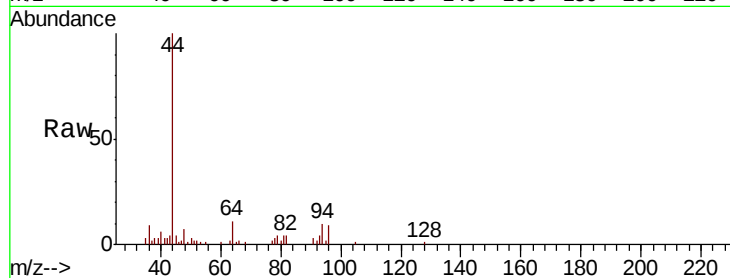
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion: 94 Resp: 1100

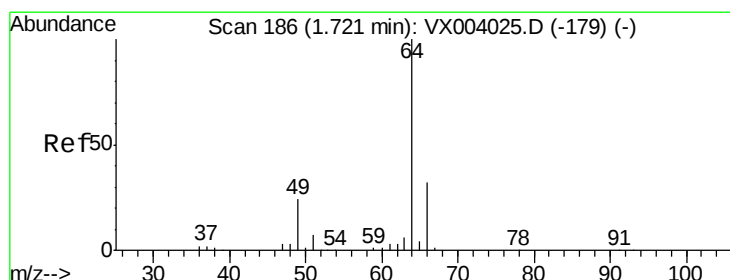
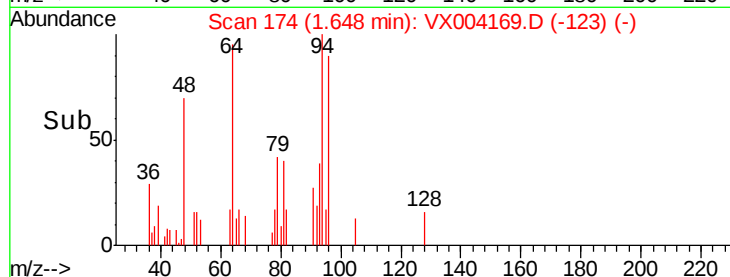
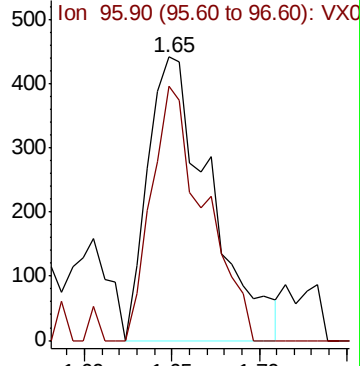
Ion Ratio Lower Upper

94 100

96 89.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 178

Delta R.T. -0.05 min

Lab File: VX004169.D

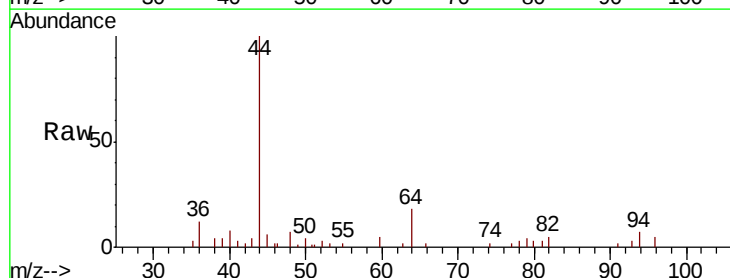
Acq: 21 Aug 2018 12:19

Tgt Ion: 64 Resp: 400

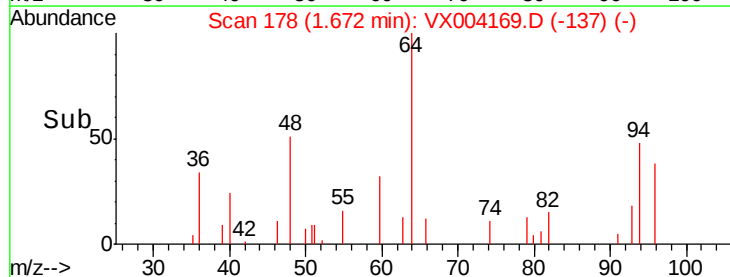
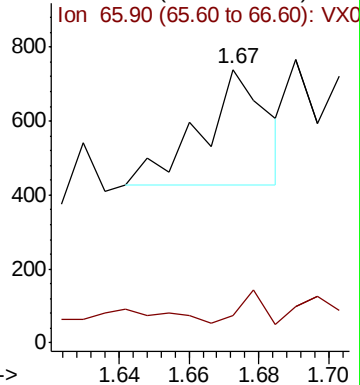
Ion Ratio Lower Upper

64 100

66 7.4 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

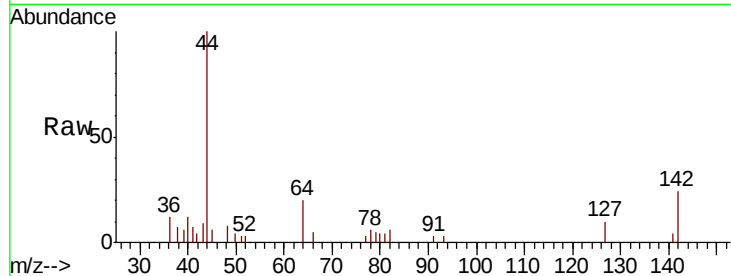




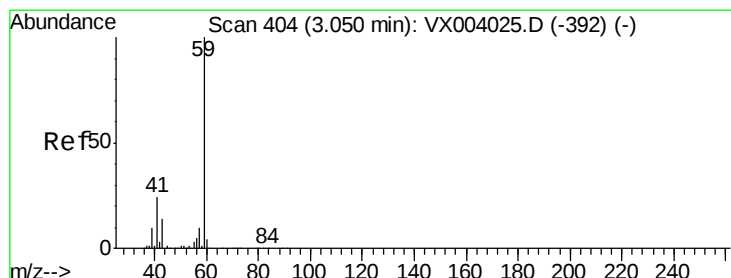
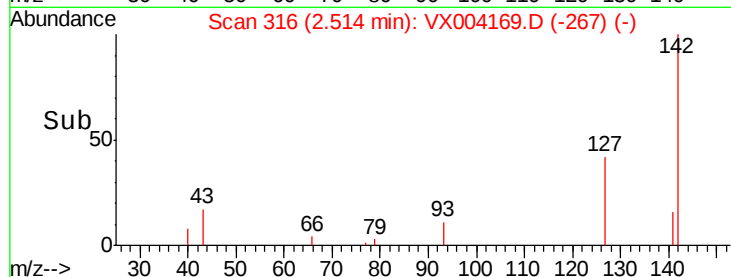
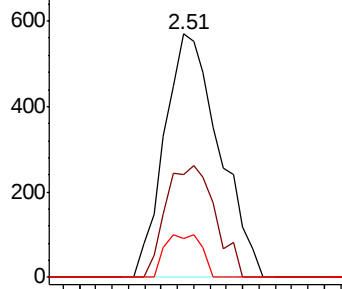
#10
Methyl Iodide
Concen: 5.36 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

Instrument :
MSVOA_X
ClientSampleId :
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion	Ratio	Lower	Upper
142	100		
127	41.4	33.1	49.7
141	11.8	11.1	16.7

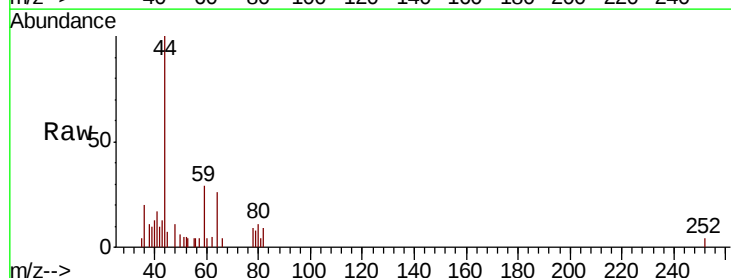


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

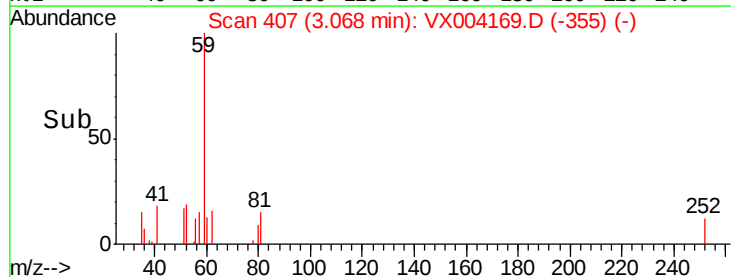
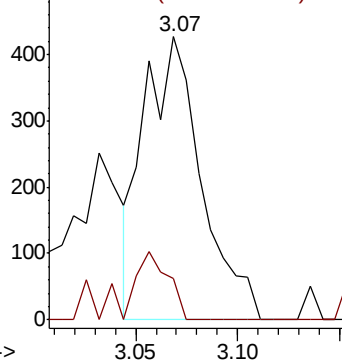


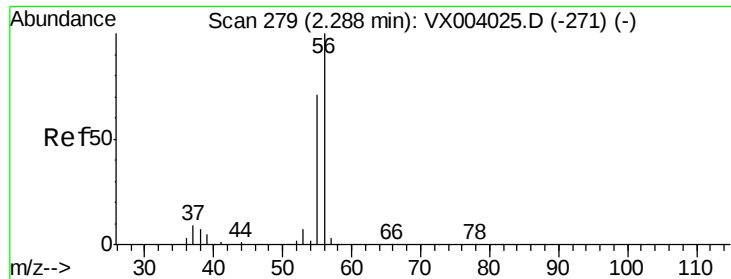
#11
Tert butyl alcohol
Concen: 1.04 ug/l
RT: 3.07 min Scan# 407
Delta R.T. 0.02 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

Tgt Ion	Ratio	Lower	Upper
59	100		
57	15.6	8.1	12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

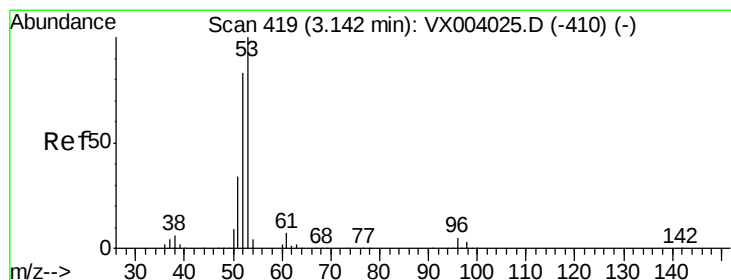
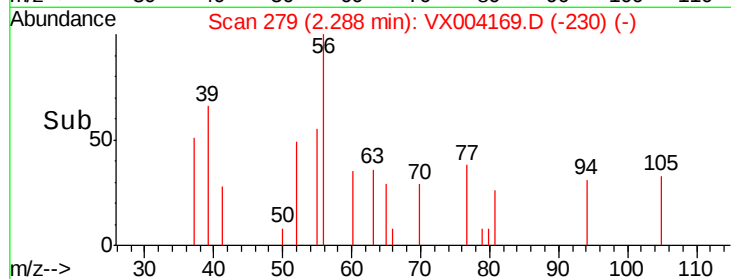
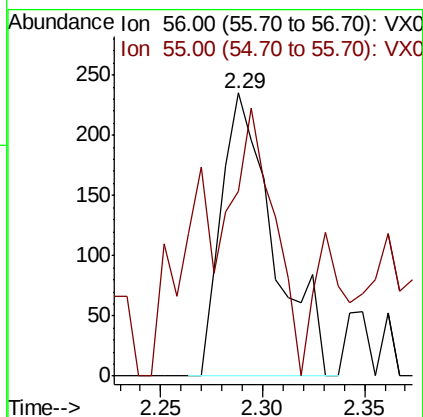
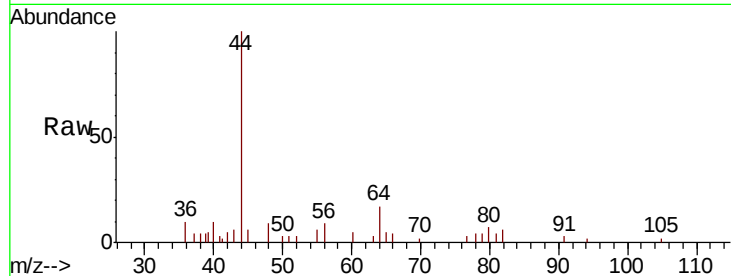




#13
 Acrolein
 Concen: 11.68 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. 0.00 min
 Lab File: VX004169.D
 Acq: 21 Aug 2018 12:19

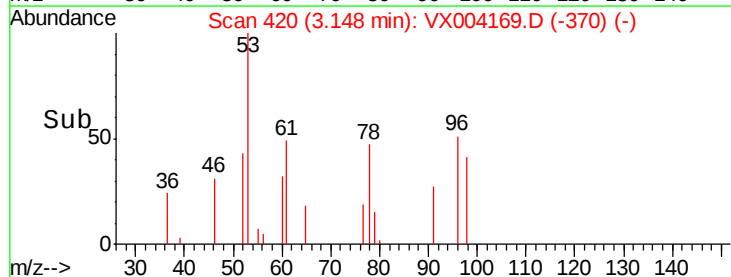
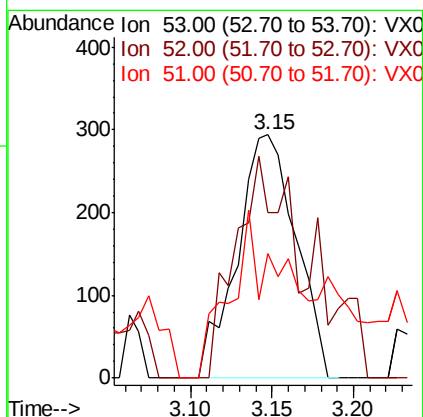
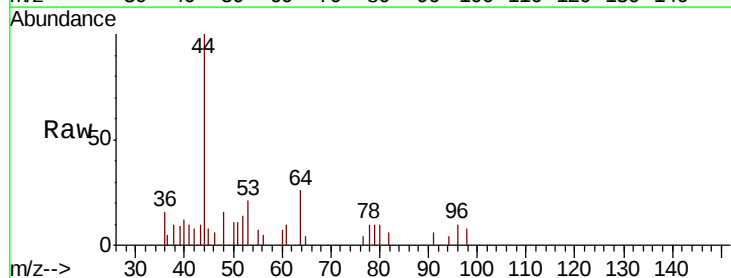
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-0818-S-TCLP-GRID61-2(2)

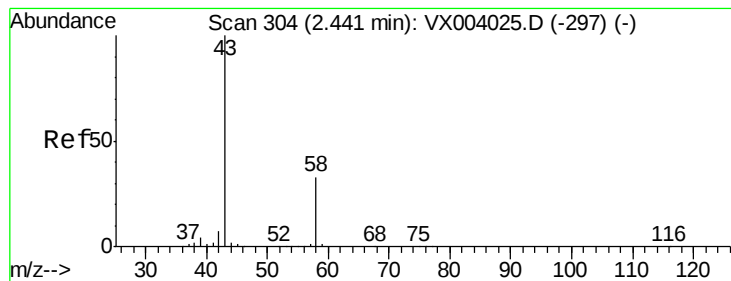
Tot Ion: 56 Resp: 420
 Ion Ratio Lower Upper
 56 100
 55 77.1 56.1 84.1



#15
 Acrylonitrile
 Concen: 0.37 ug/l
 RT: 3.15 min Scan# 420
 Delta R.T. 0.01 min
 Lab File: VX004169.D
 Acq: 21 Aug 2018 12:19

Tgt Ion: 53 Resp: 735
 Ion Ratio Lower Upper
 53 100
 52 86.1 65.3 97.9
 51 46.1 27.9 41.9#





#16

Acetone

Concen: 11.46 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

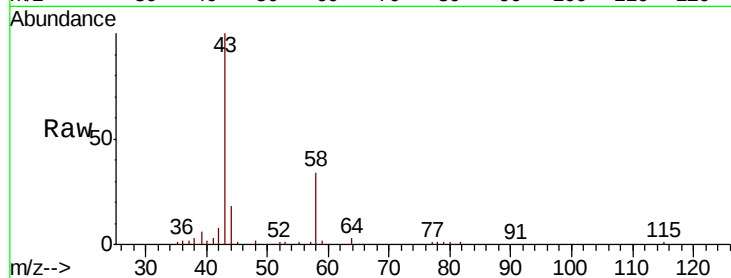
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion: 43 Resp: 23836

Ion Ratio Lower Upper

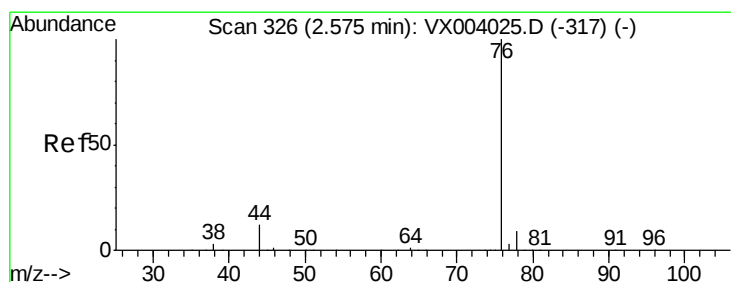
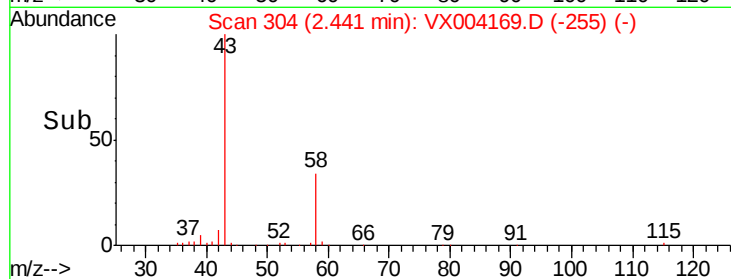
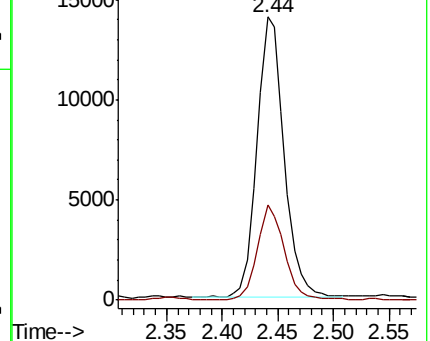
43 100

58 34.0 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX004169.D

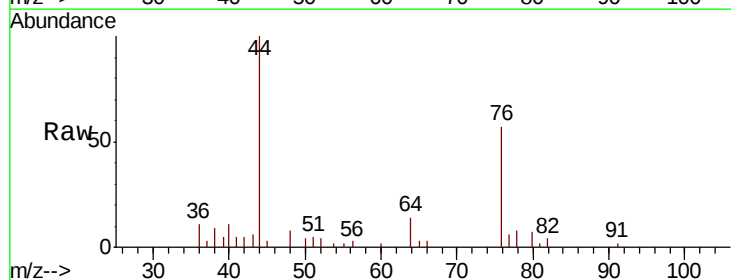
Acq: 21 Aug 2018 12:19

Tgt Ion: 76 Resp: 2256

Ion Ratio Lower Upper

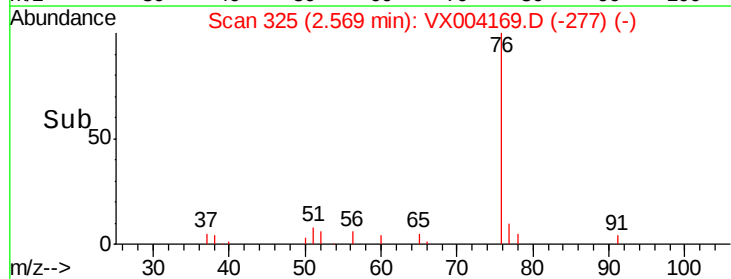
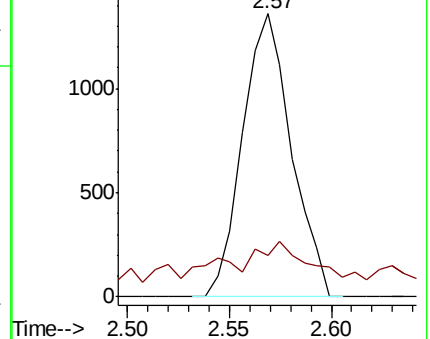
76 100

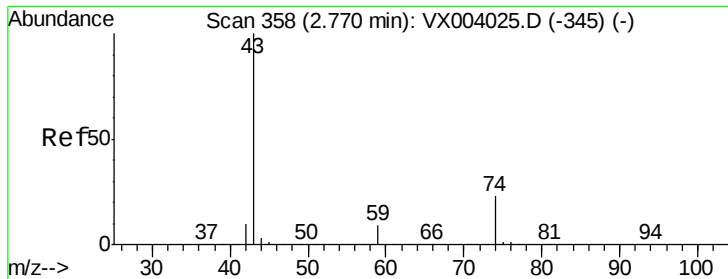
78 7.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

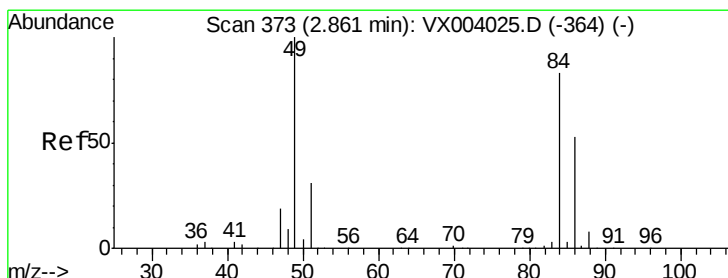
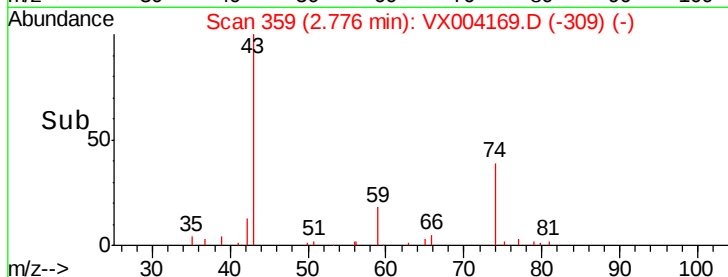
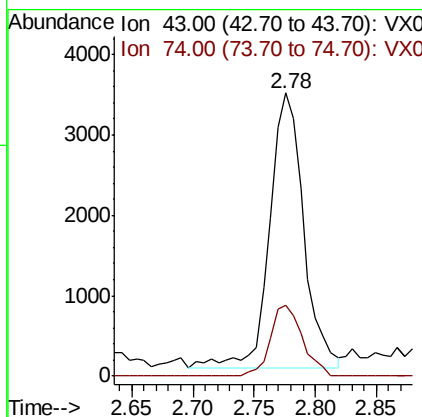
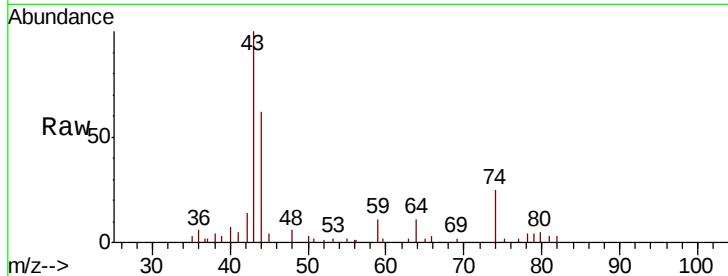




#18
Methyl Acetate
Concen: 1.43 ug/l
RT: 2.78 min Scan# 359
Delta R.T. 0.01 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

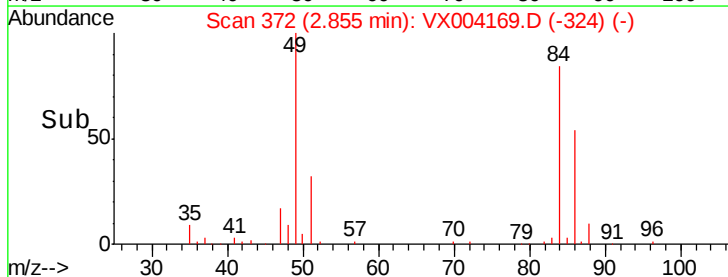
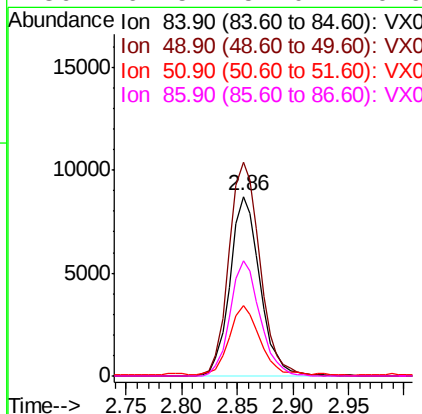
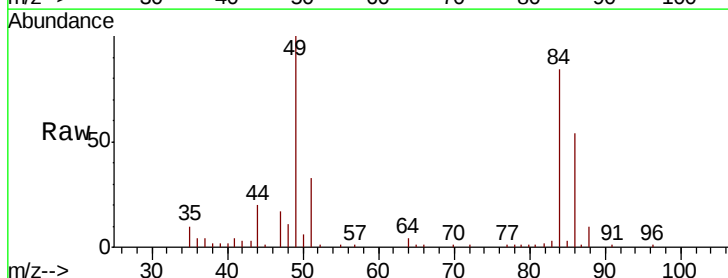
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CB-0818-S-TCLP-GRID61-2(2)

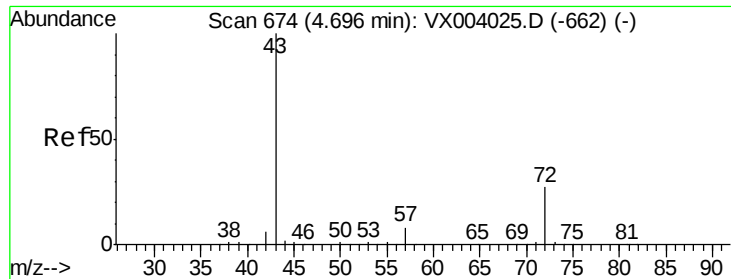
Tot Ion: 43 Resp: 6598
Ion Ratio Lower Upper
43 100
74 24.3 18.9 28.3



#20
Methylene Chloride
Concen: 4.23 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

Tgt Ion: 84 Resp: 16273
Ion Ratio Lower Upper
84 100
49 119.2 98.9 148.3
51 38.3 29.9 44.9
86 64.5 51.0 76.6





#25

2-Butanone

Concen: 1.32 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

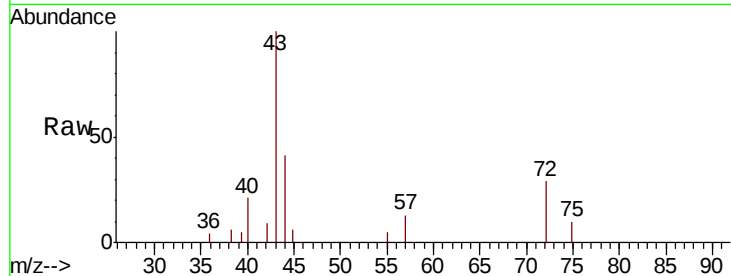
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion: 43 Resp: 4481

Ion Ratio Lower Upper

43 100

72 29.2 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

1500

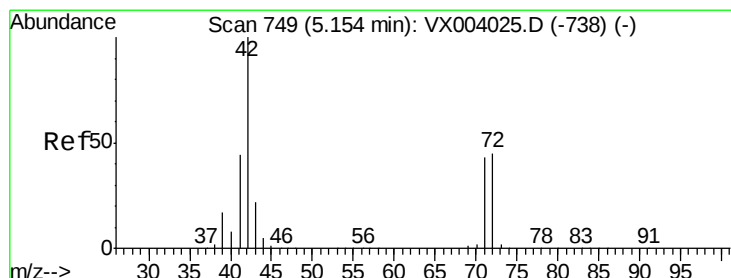
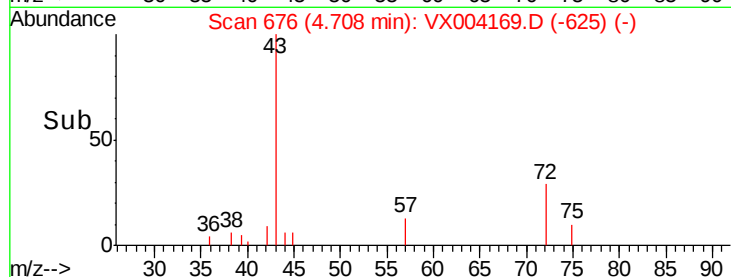
1000

500

0

Time-->

4.60 4.70 4.80



#29

Tetrahydrofuran

Concen: 0.64 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.00 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

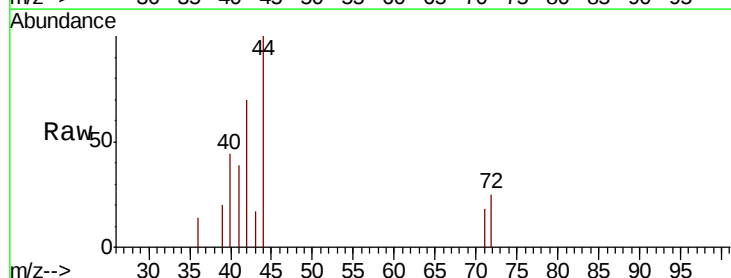
Tgt Ion: 42 Resp: 1113

Ion Ratio Lower Upper

42 100

72 34.1 37.7 56.5#

71 36.8 35.0 52.6



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

400

300

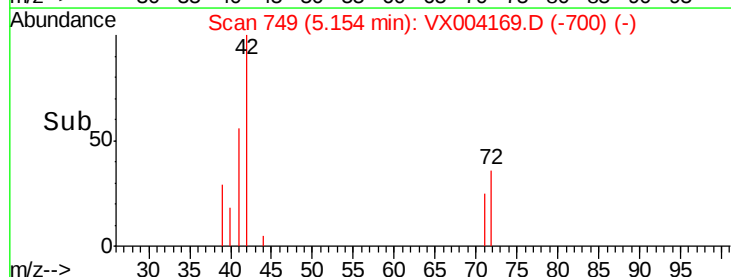
200

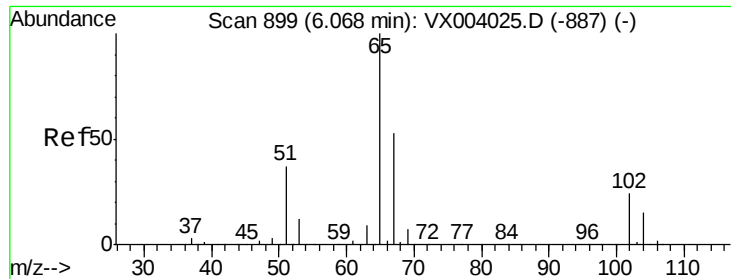
100

0

Time-->

5.05 5.10 5.15 5.20 5.25

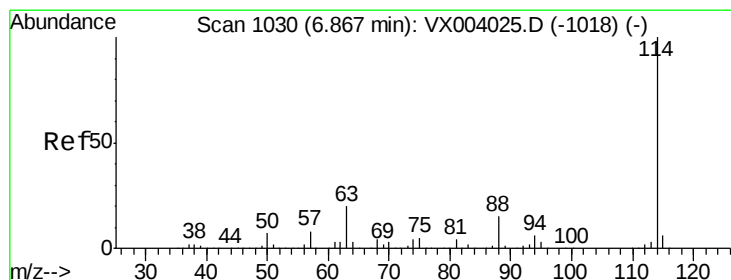
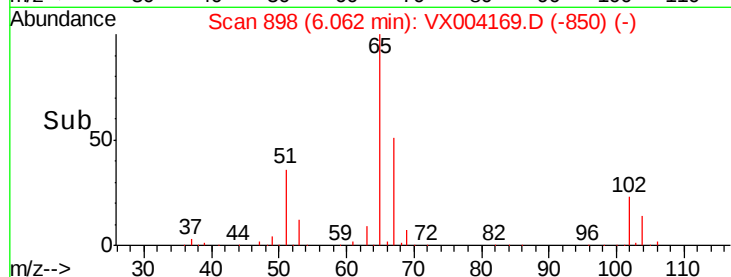
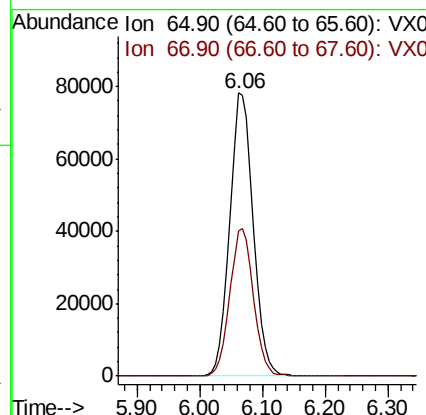
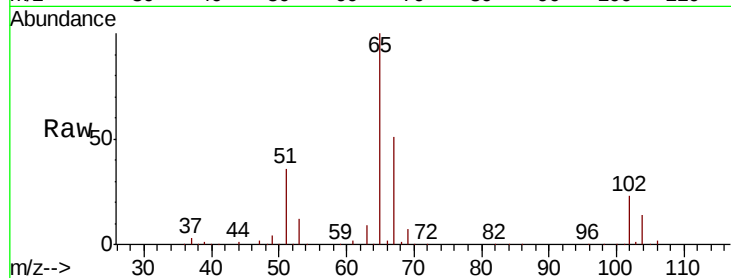




#33
 1,2-Dichloroethane-d4
 Concen: 50.67 ug/l
 RT: 6.06 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VX004169.D
 Acq: 21 Aug 2018 12:19

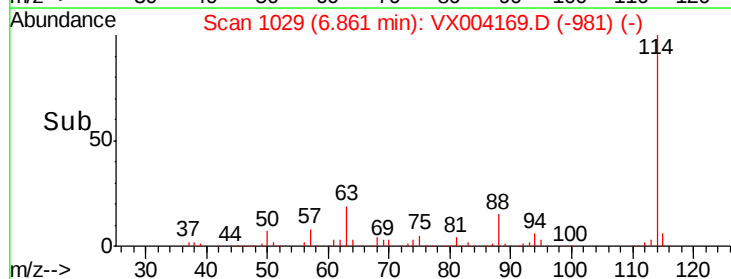
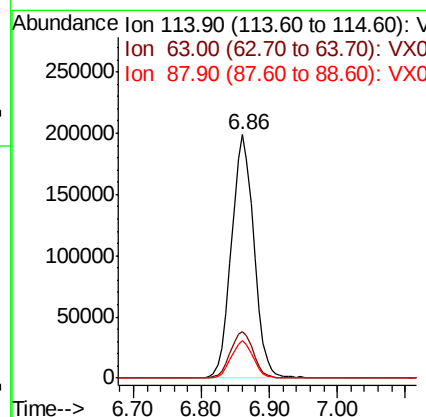
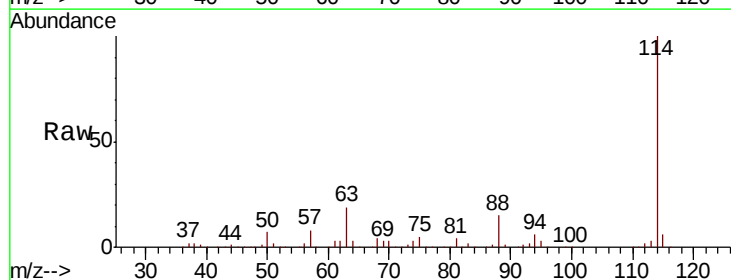
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-0818-S-TCLP-GRID61-2(2)

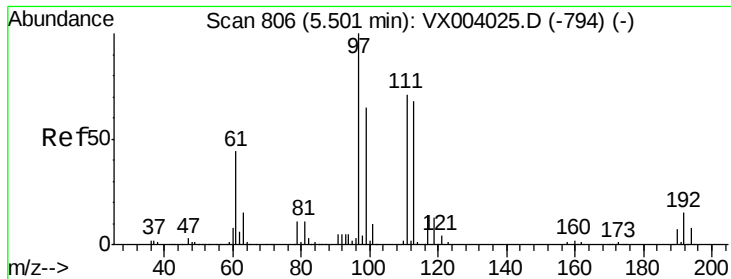
Tot Ion: 65 Resp: 202785
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX004169.D
 Acq: 21 Aug 2018 12:19

Tgt Ion: 114 Resp: 454750
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.3 0.0 32.0

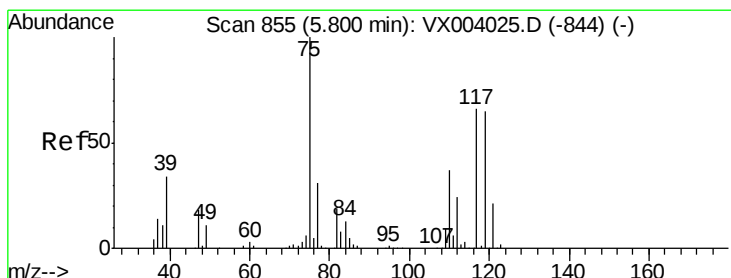
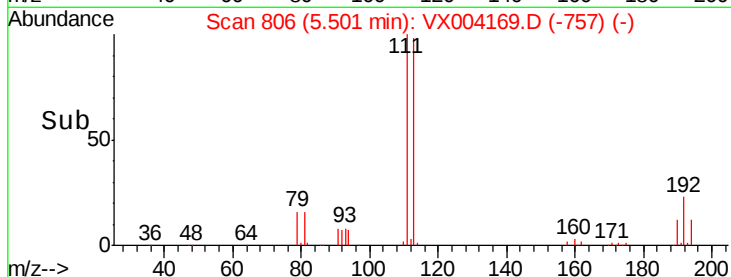
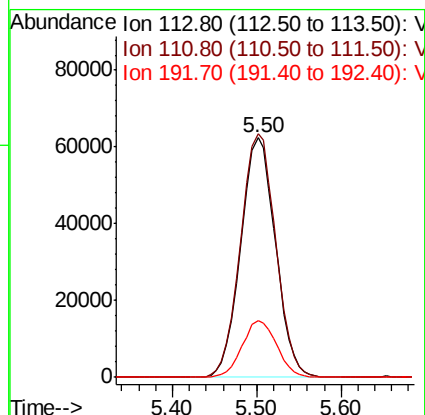
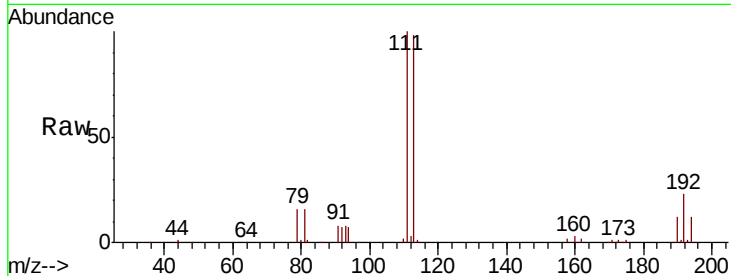




#35
 Dibromofluoromethane
 Concen: 51.26 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004169.D
 Acq: 21 Aug 2018 12:19

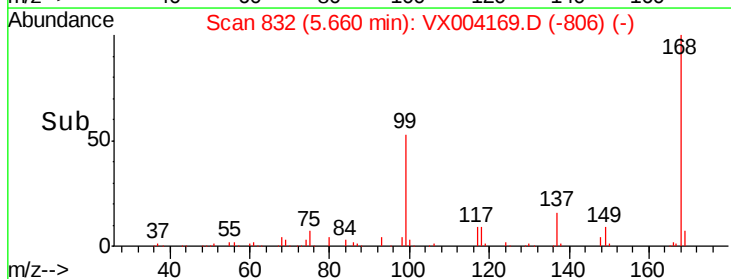
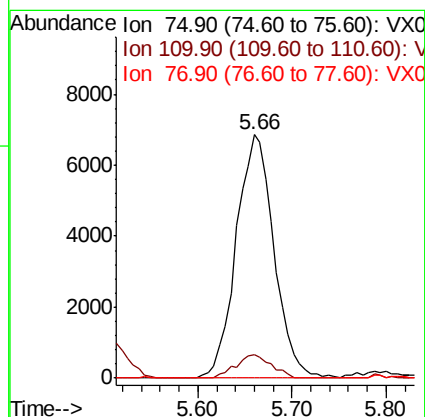
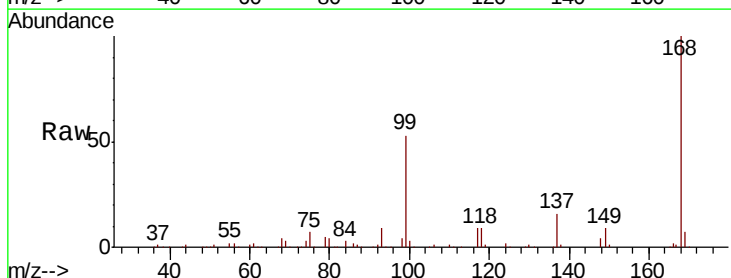
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-0818-S-TCLP-GRID61-2(2)

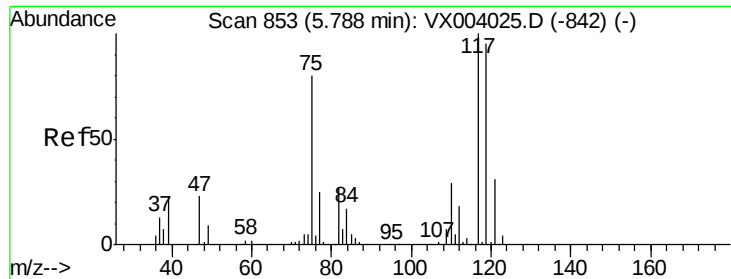
Tot Ion:113 Resp: 174445
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.0 123.0
 192 23.5 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004169.D
 Acq: 21 Aug 2018 12:19

Tgt Ion: 75 Resp: 19174
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.2 54.6#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.96 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

CB-0818-S-TCLP-GRID61-2(2)

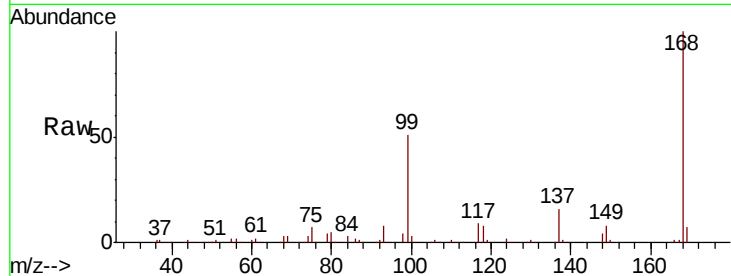
Tot Ion:117 Resp: 24926

Ion Ratio Lower Upper

117 100

119 5.6 79.5 119.3#

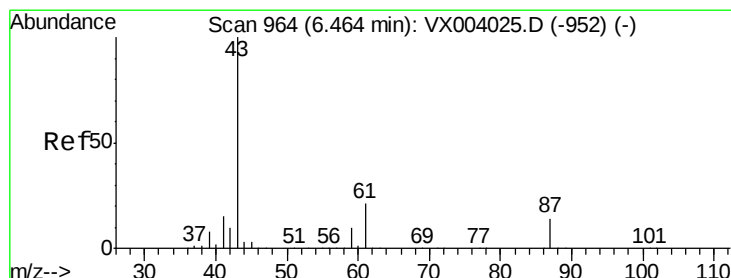
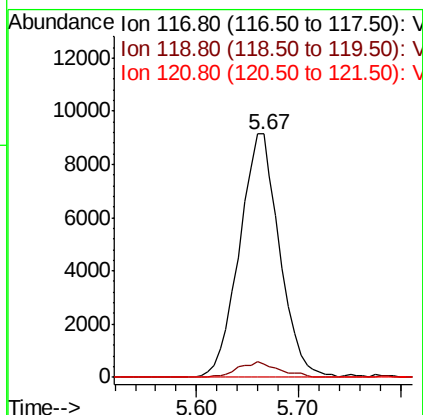
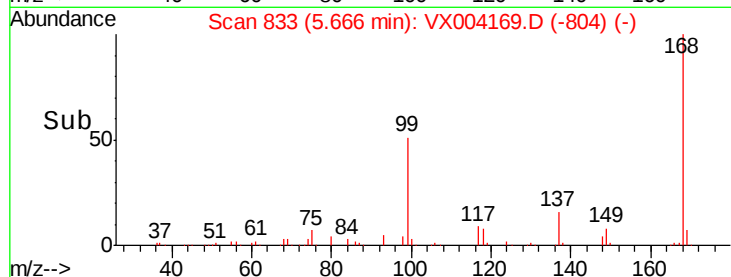
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 18.33 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.00 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

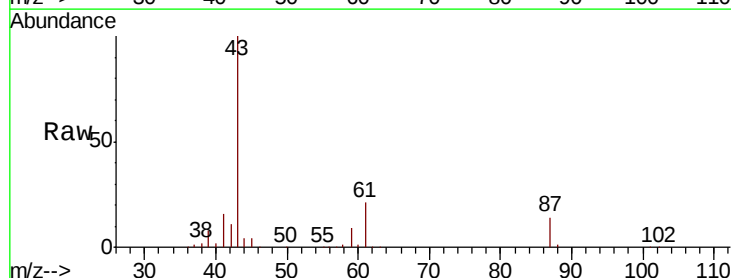
Tgt Ion: 43 Resp: 152258

Ion Ratio Lower Upper

43 100

61 20.8 16.9 25.3

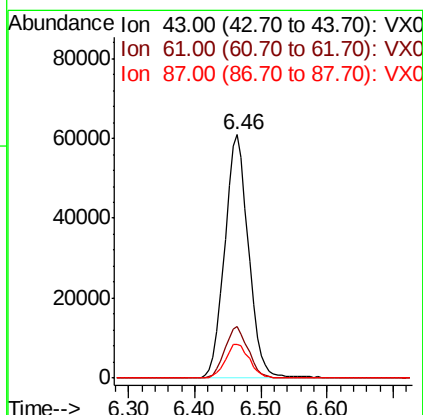
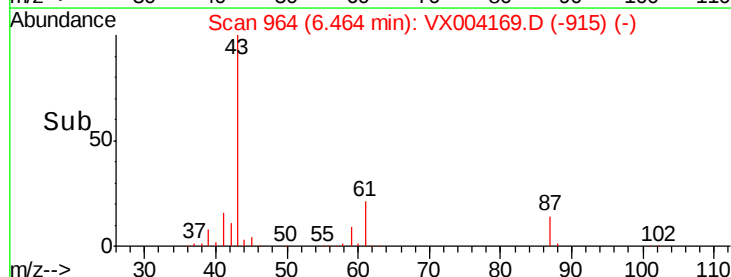
87 14.1 11.3 16.9

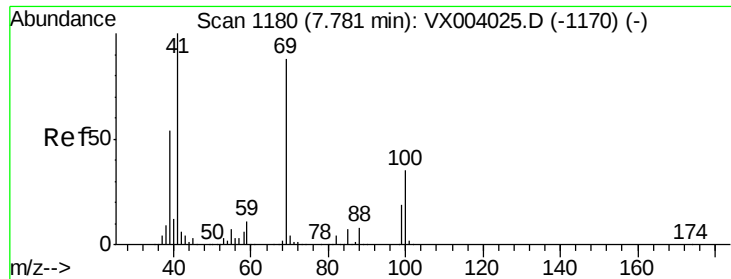


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

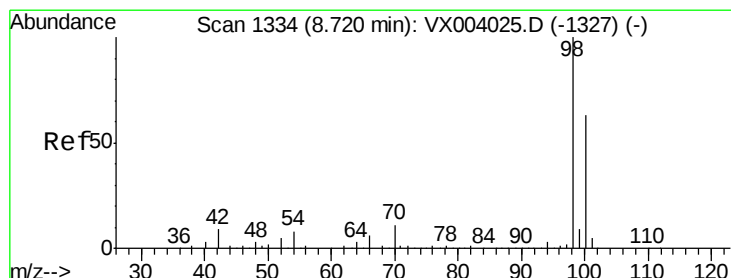
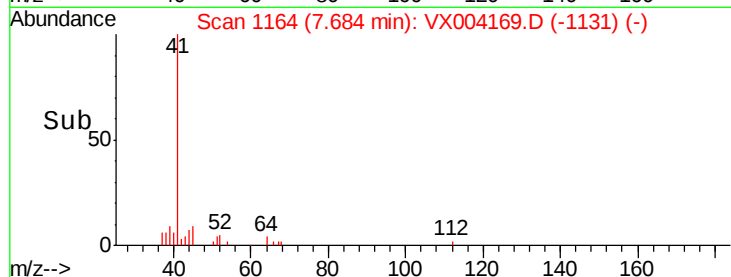
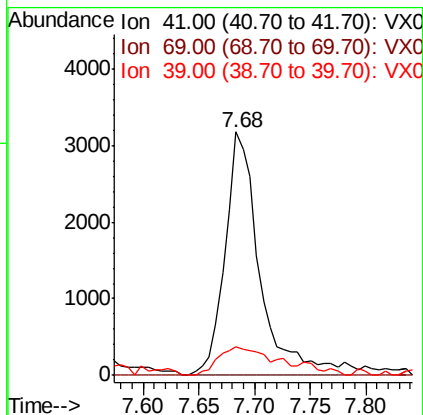
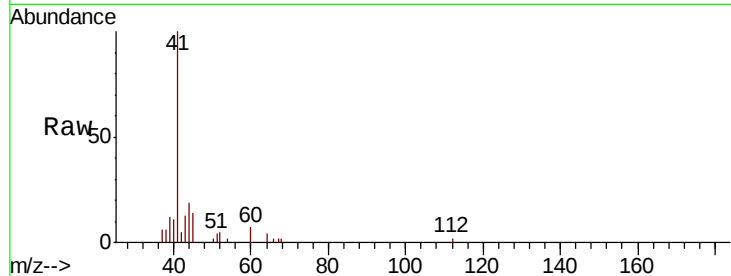




#48
Methyl methacrylate
Concen: 1.63 ug/l
RT: 7.68 min Scan# 1164
Delta R.T. -0.10 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

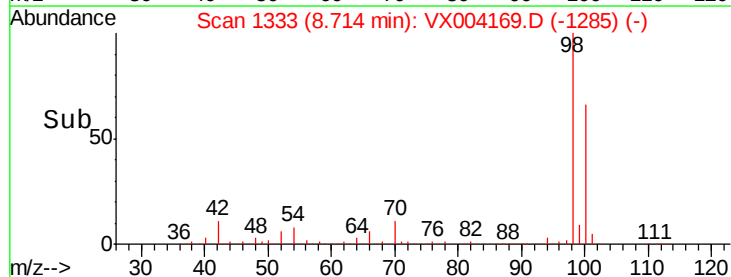
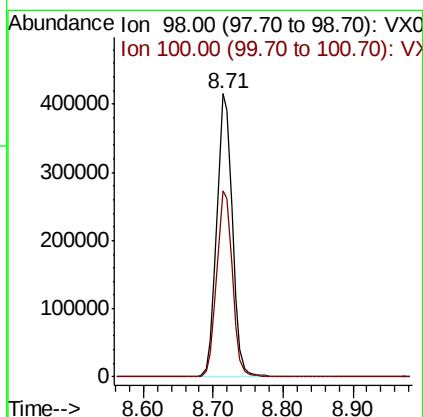
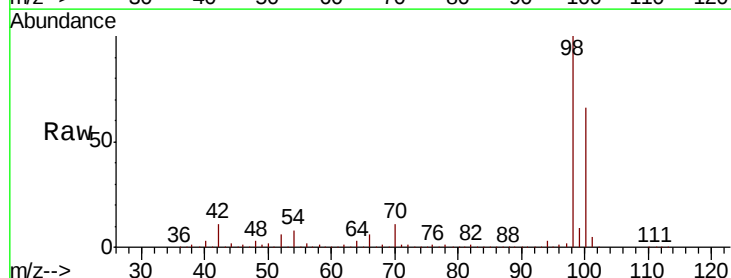
Instrument :
MSVOA_X
ClientSampleId :
CB-0818-S-TCLP-GRID61-2(2)

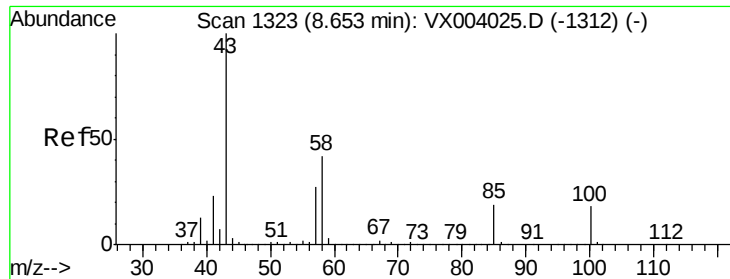
Tot Ion: 41 Resp: 6830
Ion Ratio Lower Upper
41 100
69 0.0 68.8 103.2#
39 18.3 42.3 63.5#



#50
Toluene-d8
Concen: 46.85 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

Tgt Ion: 98 Resp: 646470
Ion Ratio Lower Upper
98 100
100 65.7 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. -0.03 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

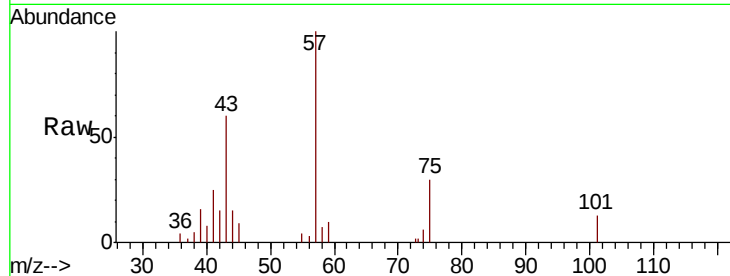
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion: 43 Resp: 2460

Ion Ratio Lower Upper

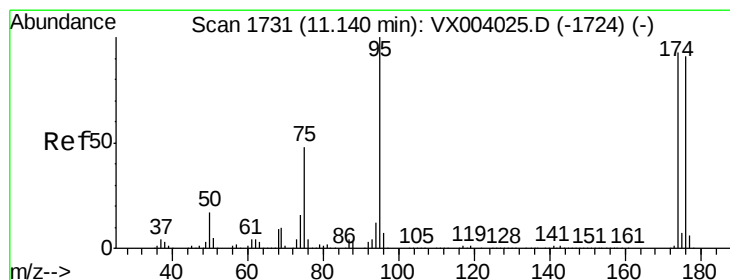
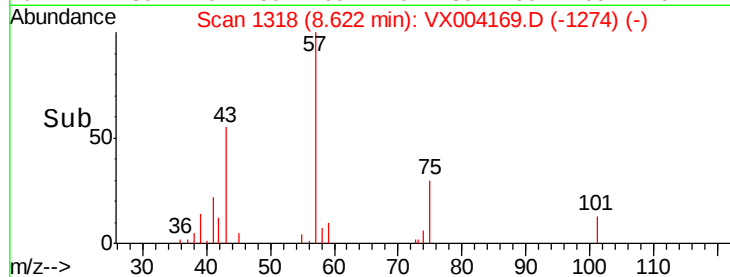
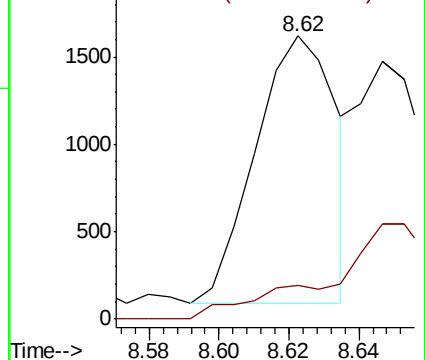
43 100

58 0.0 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

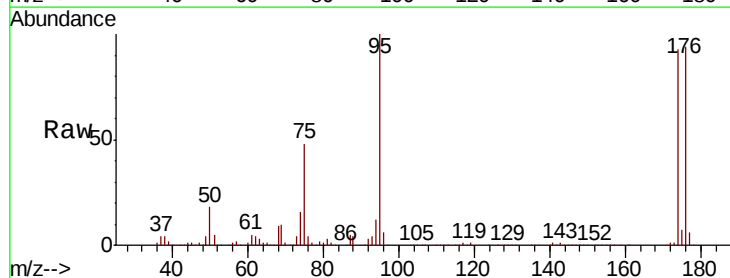
Tgt Ion: 95 Resp: 213285

Ion Ratio Lower Upper

95 100

174 91.6 0.0 182.8

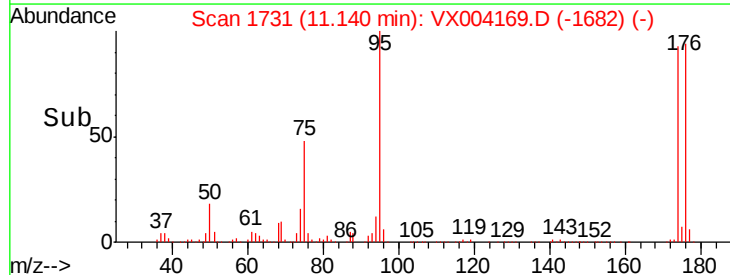
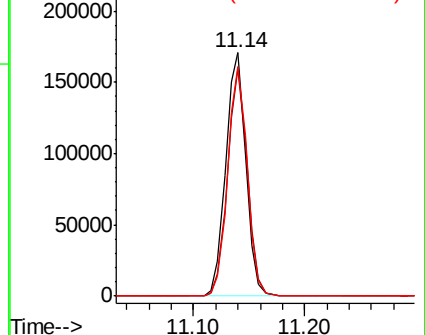
176 91.7 0.0 179.0

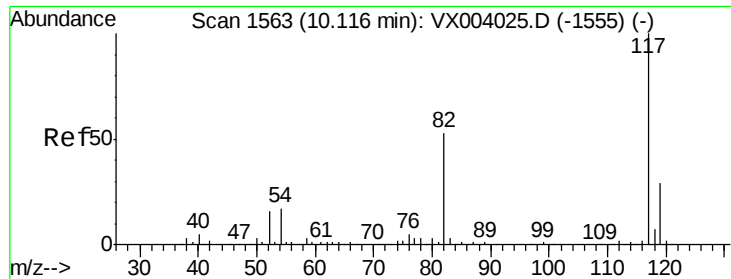


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

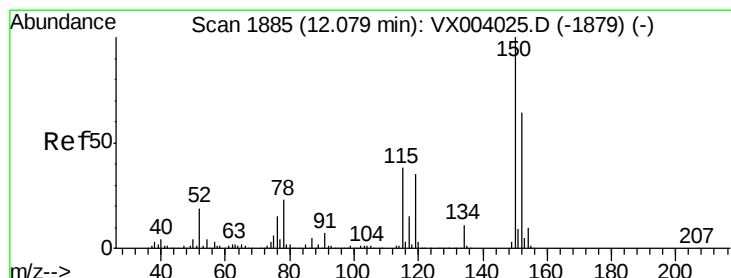
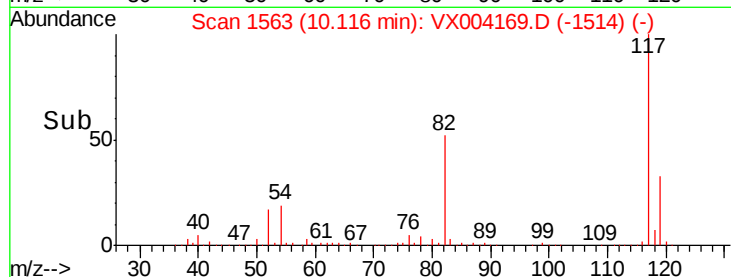
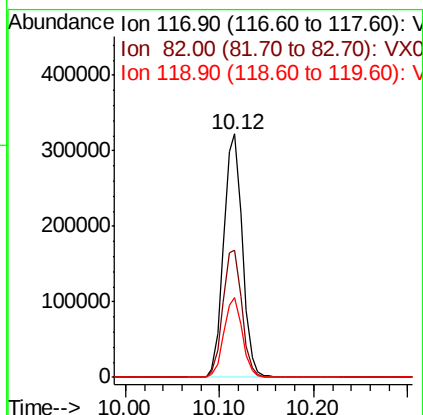
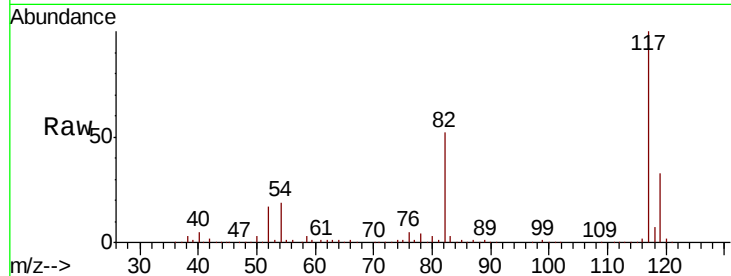




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

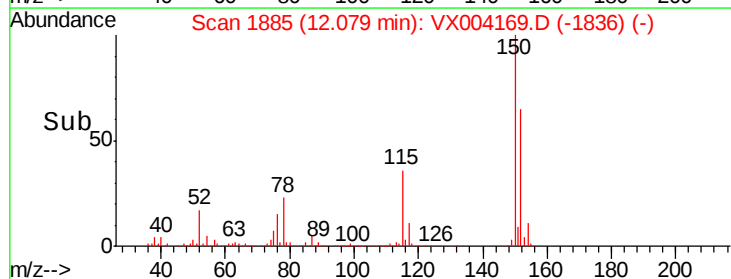
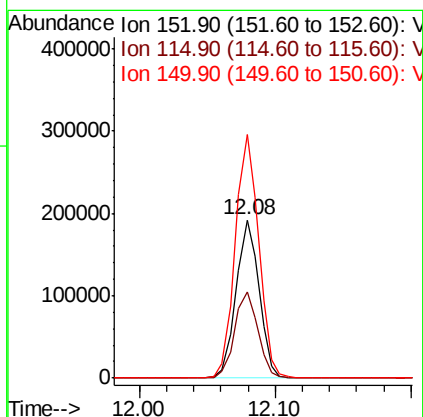
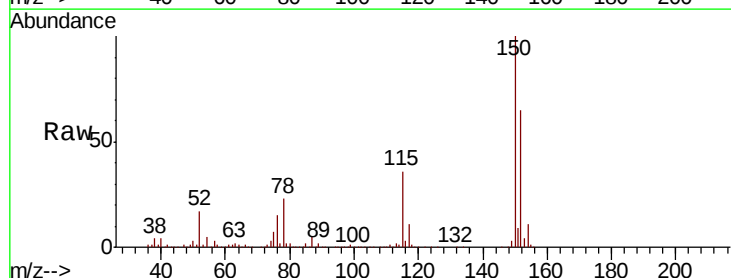
Instrument :
MSVOA_X
ClientSampleId :
CB-0818-S-TCLP-GRID61-2(2)

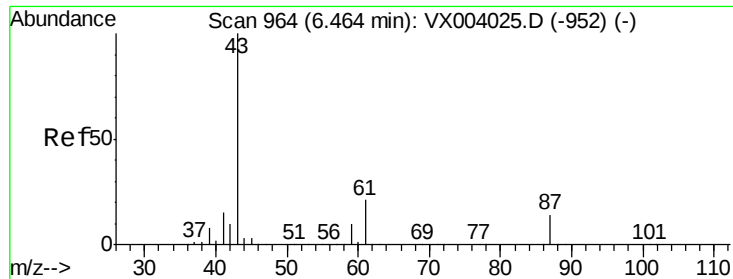
Tot Ion:117 Resp: 442272
Ion Ratio Lower Upper
117 100
82 52.4 45.4 68.0
119 32.5 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

Tgt Ion:152 Resp: 226562
Ion Ratio Lower Upper
152 100
115 55.0 39.1 117.3
150 156.8 0.0 349.2





#74

N-amvl acetate

Concen: 21.11 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.00 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

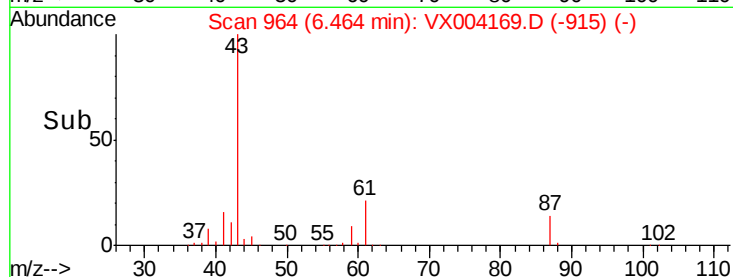
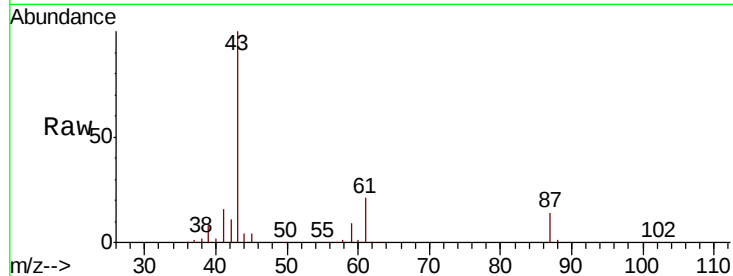
ClientSampleId :

CB-0818-S-TCLP-GRID61-2(2)

Tot Ion: 43 Resp: 152258

Ion Ratio Lower Upper

43	100		
70	0.0	0.0	0.0
55	0.1	0.1	0.1#
61	20.8	16.9	25.3

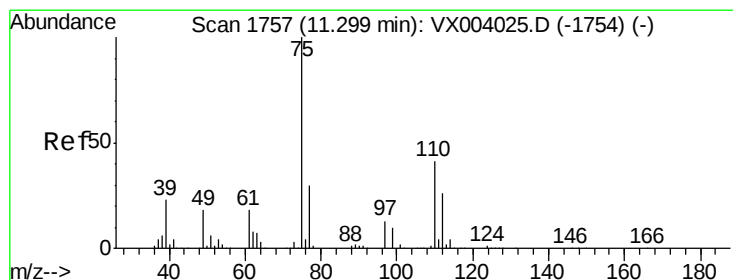
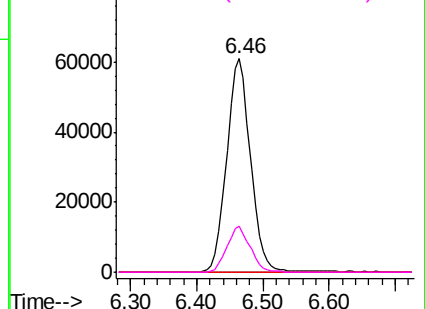


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.46 ug/l

RT: 11.13 min Scan# 1730

Delta R.T. -0.16 min

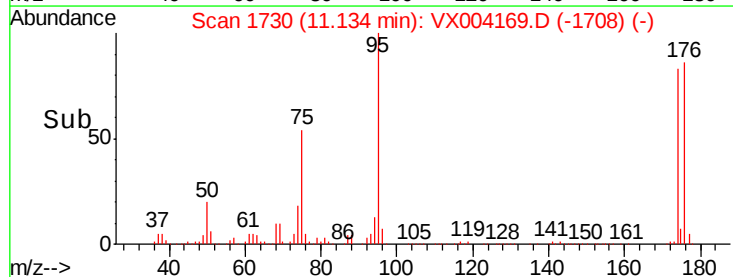
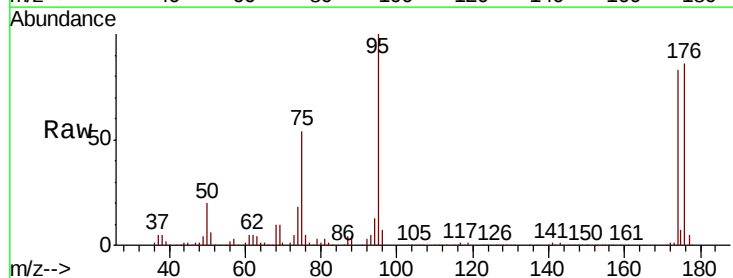
Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Tgt Ion: 75 Resp: 106588

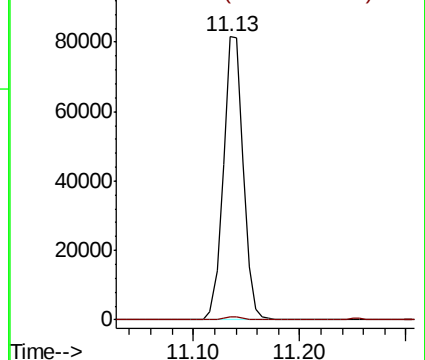
Ion Ratio Lower Upper

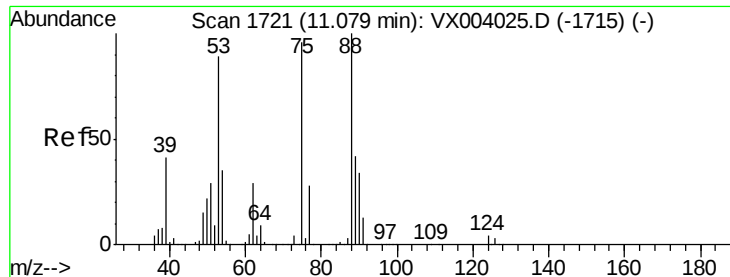
75	100		
77	1.2	20.8	62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.62 ug/l

RT: 11.13 min Scan# 1730

Delta R.T. 0.05 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

Instrument :

MSVOA_X

ClientSampleId :

CB-0818-S-TCLP-GRID61-2(2)

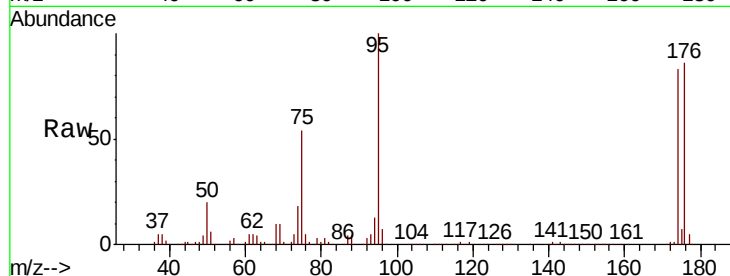
Tot Ion: 75 Resp: 106588

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

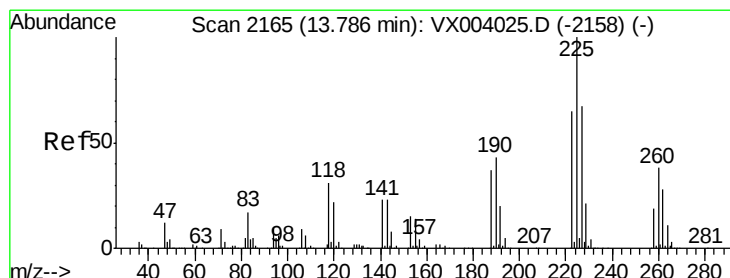
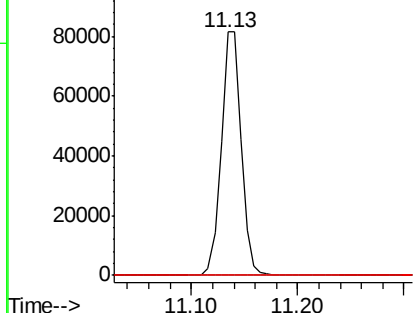
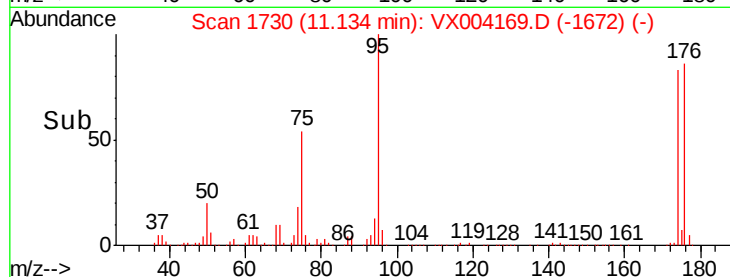
89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX004169.D

Acq: 21 Aug 2018 12:19

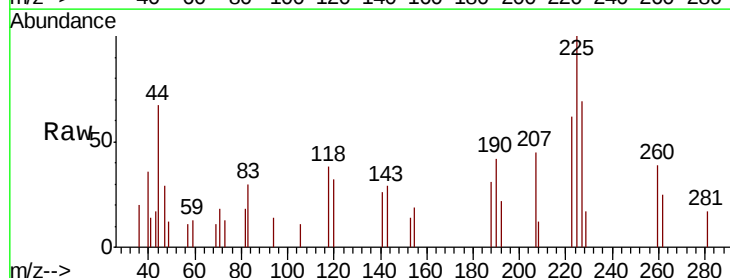
Tgt Ion: 225 Resp: 609

Ion Ratio Lower Upper

225 100

223 64.7 31.4 94.0

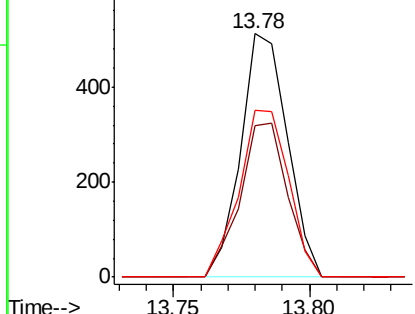
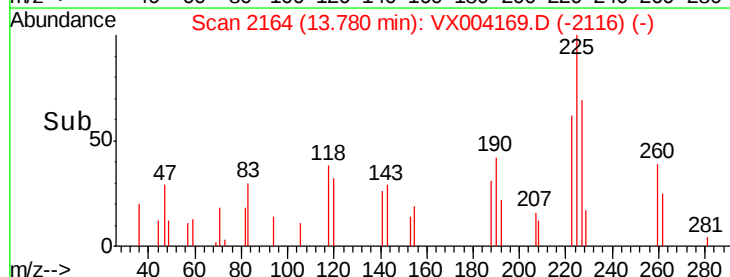
227 72.9 32.1 96.5

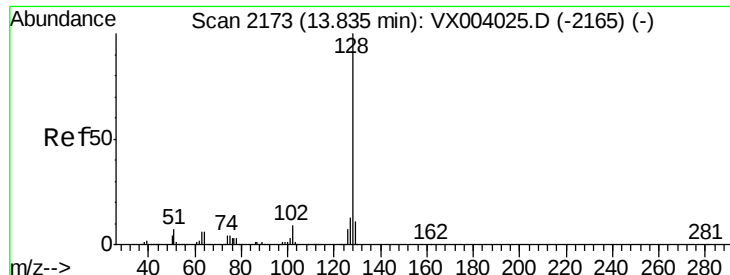


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

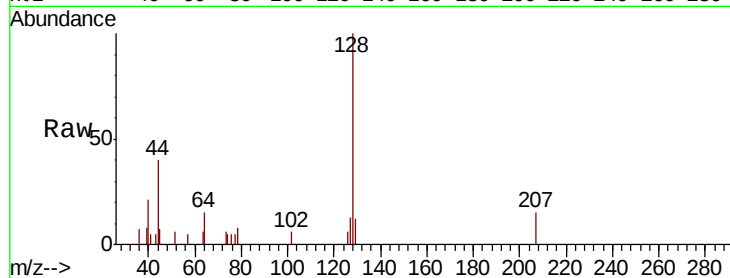




#95
Naphthalene
Concen: 1.23 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004169.D
Acq: 21 Aug 2018 12:19

Instrument :
MSVOA_X
ClientSampleId :
CB-0818-S-TCLP-GRID61-2(2)

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.2
129	9.7	8.8	13.2



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

